

defining a number of time intervals, each represented by a fixed number of timing clock cycles of the service input signal;

determining a number of network clock cycles respectively within each of the time intervals;

determining a modulo 2^P value of each of the determined number of network clock cycles, wherein 2^P represents a range of tolerance in the timing clock of the service input signal; and

transmitting each of the determined modulo 2^P values at the end of each of the time intervals respectively.

34. A method for representing a timing clock of a service input signal at a source node of a packet-based communications network including a network clock, the method comprising the steps of:

defining a number of time intervals each represented by a fixed number of timing clock cycles of the service input signal;

determining a number of network clock cycles respectively within each of the time intervals;

determining a modulo 2^P value of each of the determined number of network clock cycles, wherein 2^P represents a range of possible deviations in the

number of network clock cycles within each of the time intervals; and
transmitting each of the determined modulo 2^P values at the end of each
of the time intervals respectively.

35. A method for recovering a timing clock of a service input signal at a
destination node of a packet-based communications network including a network clock,
the method comprising, the steps of:

receiving a residual time stamp that represents a modulo 2^P value of a
number of network clock cycles in a time interval defined by a fixed number of timing
clock cycles of the service input signal, wherein 2^P represents a range of tolerance in
the timing clock of the service input signal;

determining, from the residual time stamp and the network clock cycles,
the time interval; and

recovering the timing clock of the service input signal based on the
determined time interval and the fixed number of timing clock cycles.

36. A method for recovering a timing clock of a service input signal at a
destination node of a packet-based communications network including a network clock,
the method comprising the steps of:

Revised
Cont.

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, D. C. 20005
202-408-4000